

6208 NRDeep groove ball bearing with snap ring



Deep groove ball bearing with snap ring

Single row deep groove ball bearings with a snap ring groove are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than many other bearing types. The snap ring, fitted in an annular groove in the outer ring, facilitates axial location of the bearings within their housings.

- Snap ring facilitates axial location within housing
- Simple, versatile and robust design
- Low friction and high-speed capability
- Accommodate radial and axial loads in both directions
- Require little maintenance

Overview

Dimensions

Bore diameter	40 mm
Outside diameter	80 mm
Width	18 mm

Performance

Basic dynamic load rating	32.5 kN
Basic static load rating	19 kN
Reference speed	18 000 r/min
Limiting speed	11 000 r/min
SKF performance class	SKF Explorer

Properties

Filling slots	Without
Number of rows	1
Locating feature, bearing outer ring	Snap ring (fitted)
Bore type	Cylindrical
Cage	Sheet metal
Matched arrangement	No
Radial internal clearance	CN
Tolerance class	Class P6 (P6)
Material, bearing	Bearing steel
Coating	Without
Sealing	Without
Lubricant	None

Relubrication feature

Without

Technical Specification

SKF performance class

SKF Explorer

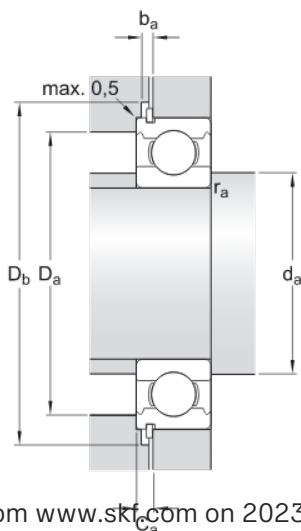


Dimensions

d	40 mm	Bore diameter
D	80 mm	Outside diameter
B	18 mm	Width
d_1	≈ 52.6 mm	Shoulder diameter
D_2	≈ 69.8 mm	Recess diameter
D_3	76.81 mm	Diameter of snap ring groove
D_4	86.6 mm	Outside diameter of snap ring
b	1.9 mm	Width of snap ring groove
C	3.28 mm	Distance from outer ring side face to snap ring groove
f	1.7 mm	Width of snap ring
r_0	max. 0.6 mm	Bottom radius of snap ring groove
$r_{1,2}$	min. 1.1 mm	Chamfer dimension

Abutment dimensions

d_a	min. 47 mm	Diameter of shaft abutment
D_a	max. 73 mm	Diameter of housing abutment
D_b	min. 88 mm	Diameter of snap ring recess in the housing
b_a	min. 2.2 mm	Width of snap ring recess in the housing



C_a	max. 4.98 mm	Distance from outer ring side face to snap ring back face
r_a	max. 1 mm	Radius of shaft or housing fillet

Calculation data

Basic dynamic load rating	C	32.5 kN
Basic static load rating	C_0	19 kN
Fatigue load limit	P_u	0.8 kN
Reference speed		18 000 r/min
Limiting speed		11 000 r/min
Minimum load factor	k_r	0.025
Calculation factor	f_0	14

Mass

Mass bearing	0.38 kg
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Included products

Snap ring	SP 80
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Tolerance class

Dimensional tolerances	P6
Radial run-out	P6

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